FIG.1

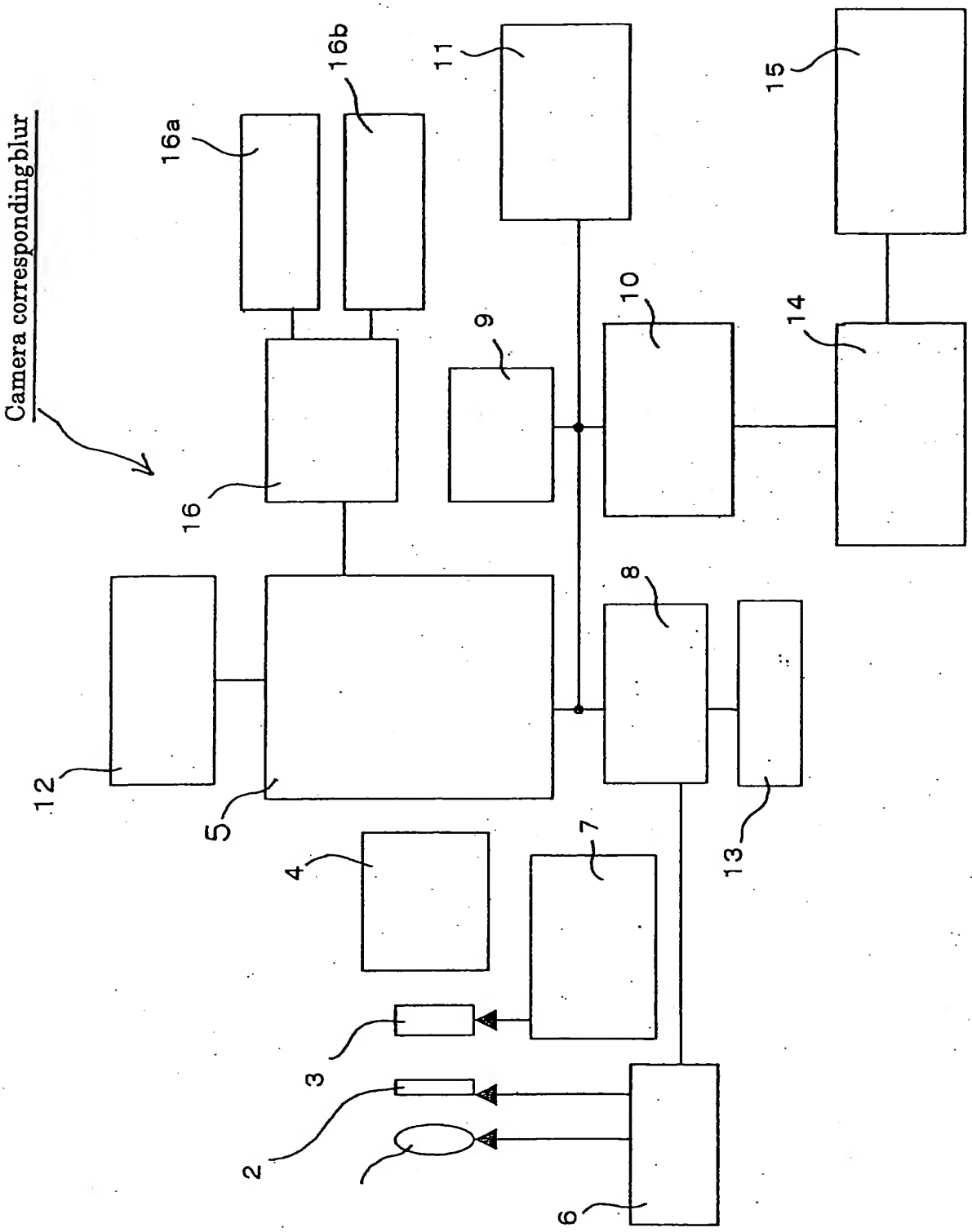

Camera corresponding blur
16a
16b
11
15
16
9
10
14
8
12
5
4
7
13
3
2
6
1

FIG.2A

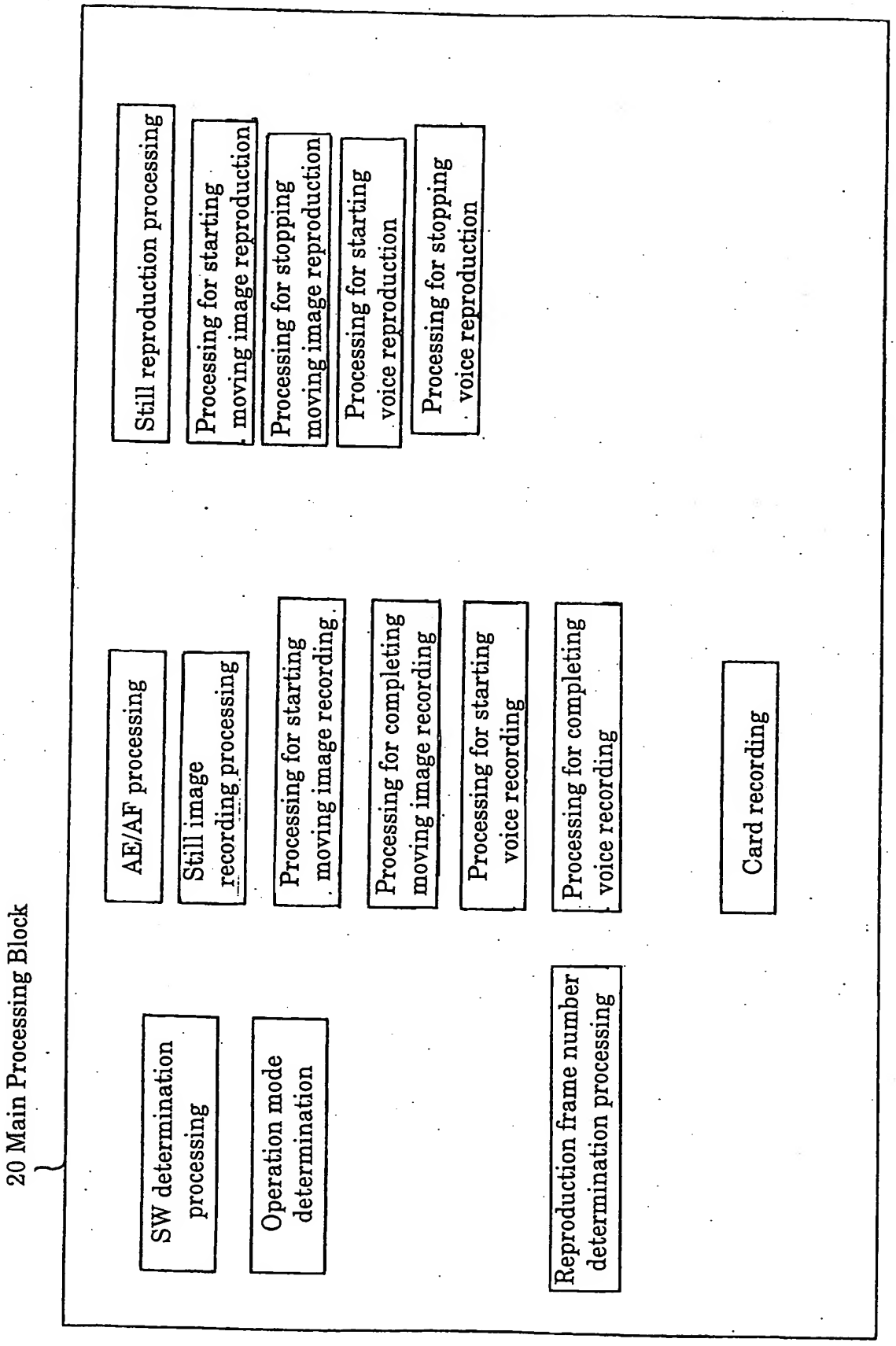

20 Main Processing Block
SW determination processing
Operation mode determination
AE/AF processing
Still image recording processing
Processing for starting moving image recording
Processing for completing moving image recording
Processing for starting voice recording
Processing for completing voice recording
Reproduction frame number determination processing
Card recording
Still reproduction processing
Processing for starting moving image reproduction
Processing for stopping moving image reproduction
Processing for starting voice reproduction
Processing for stopping voice reproduction

FIG.2B

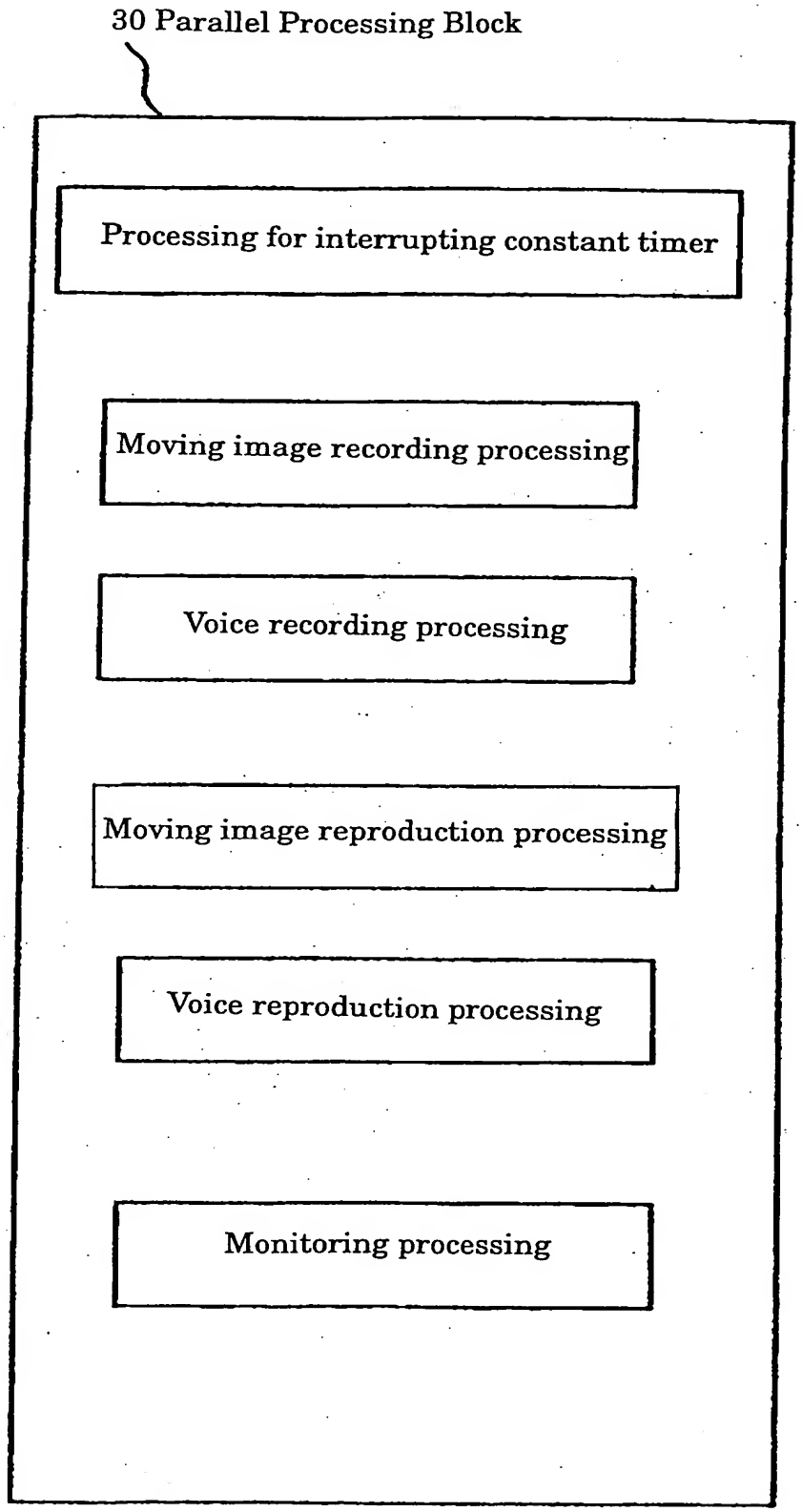

30 Parallel Processing Block
Processing for interrupting constant timer
Moving image recording processing
Voice recording processing
Moving image reproduction processing
Voice reproduction processing
Monitoring processing

FIG.3A

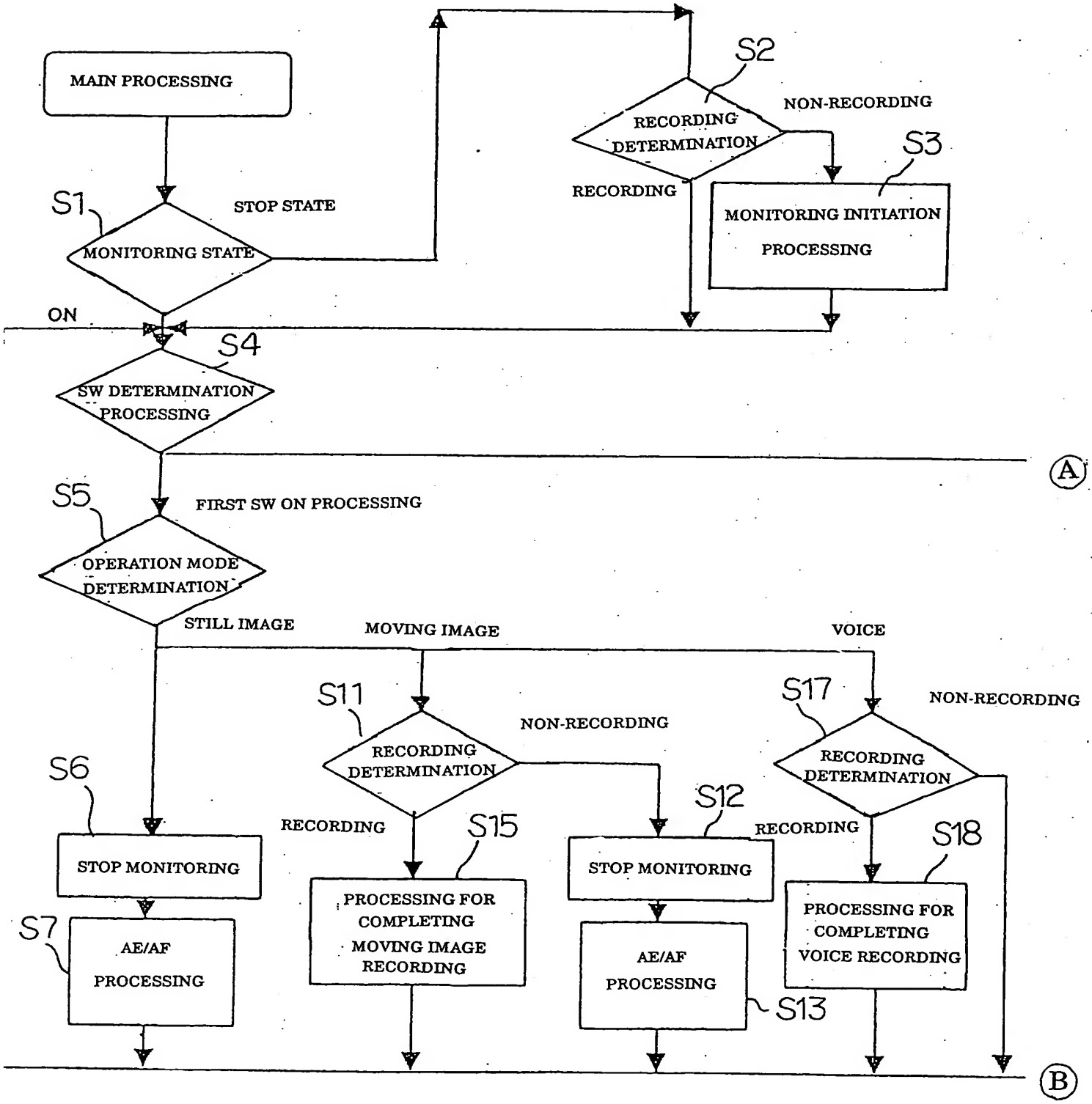

MAIN PROCESSING
S1
STOP STATE
MONITORING STATE
ON
S2
RECORDING DETERMINATION
NON-RECORDING
RECORDING
S3
MONITORING INITIATION PROCESSING
S4
SW DETERMINATION PROCESSING
A
S5
FIRST SW ON PROCESSING
OPERATION MODE DETERMINATION
STILL IMAGE
MOVING IMAGE
VOICE
S6
STOP MONITORING
S7
AE/AF PROCESSING
S11
RECORDING DETERMINATION
NON-RECORDING
RECORDING
S15
PROCESSING FOR COMPLETING MOVING IMAGE RECORDING
S12
STOP MONITORING
AE/AF PROCESSING
S13
S17
RECORDING DETERMINATION
NON-RECORDING
RECORDING
S18
PROCESSING FOR COMPLETING VOICE RECORDING
B

FIG.3B

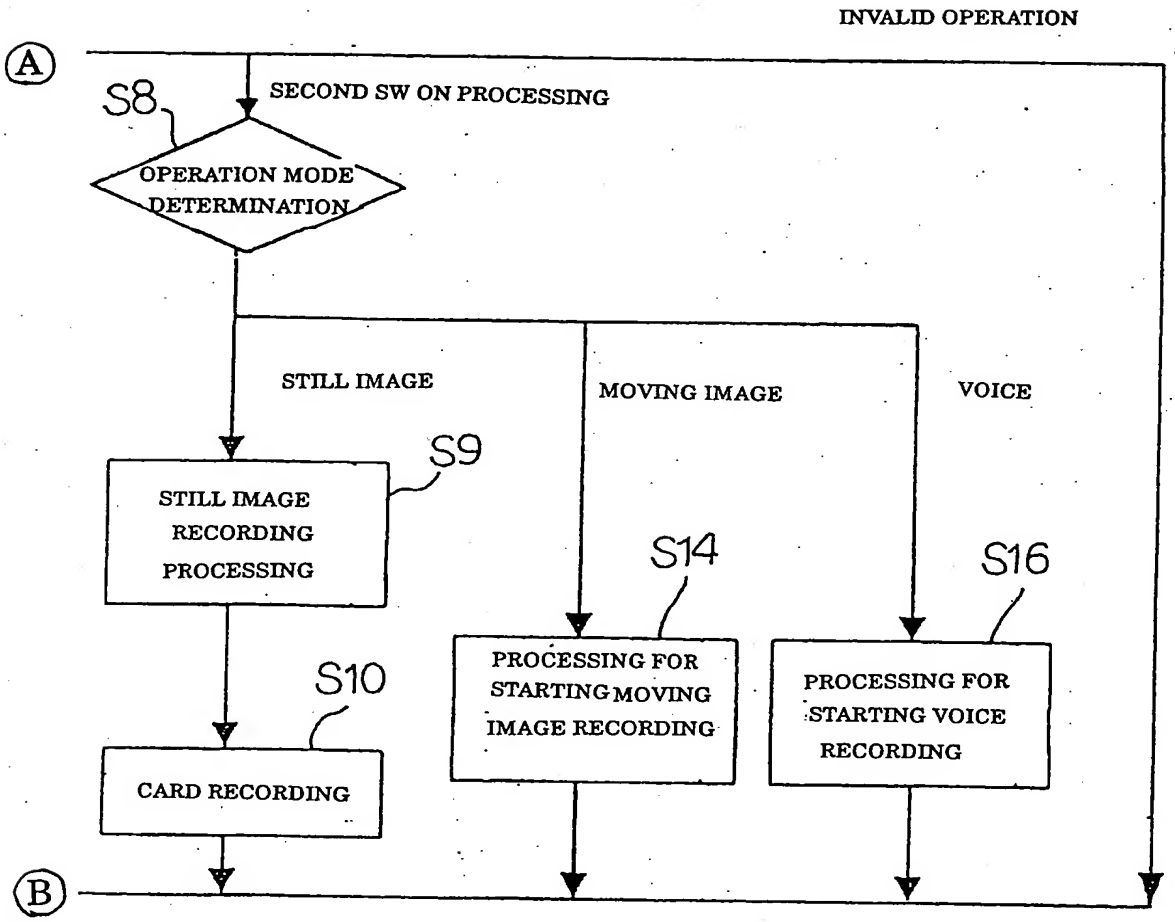

INVALID OPERATION
A
S8
SECOND SW ON PROCESSING
OPERATION MODE DETERMINATION
STILL IMAGE
MOVING IMAGE
VOICE
S9
STILL IMAGE RECORDING PROCESSING
S14
S16
S10
PROCESSING FOR STARTING MOVING IMAGE RECORDING
PROCESSING FOR STARTING VOICE RECORDING
CARD RECORDING
B

FIG.4

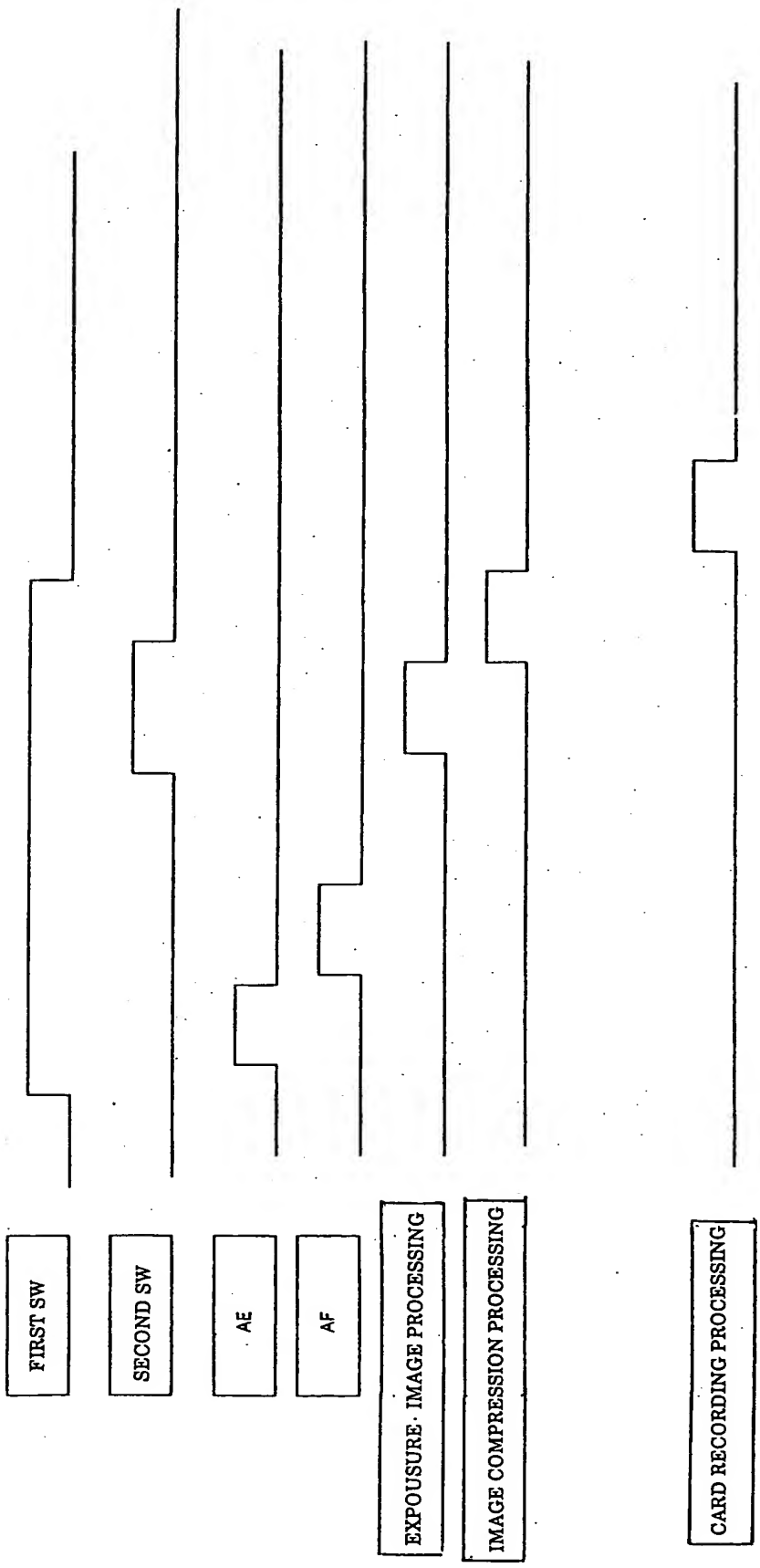

FIRST SW
SECOND SW
AE
AF
EXPOUSURE · IMAGE PROCESSING
IMAGE COMPRESSION PROCESSING
CARD RECORDING PROCESSING

FIG.5

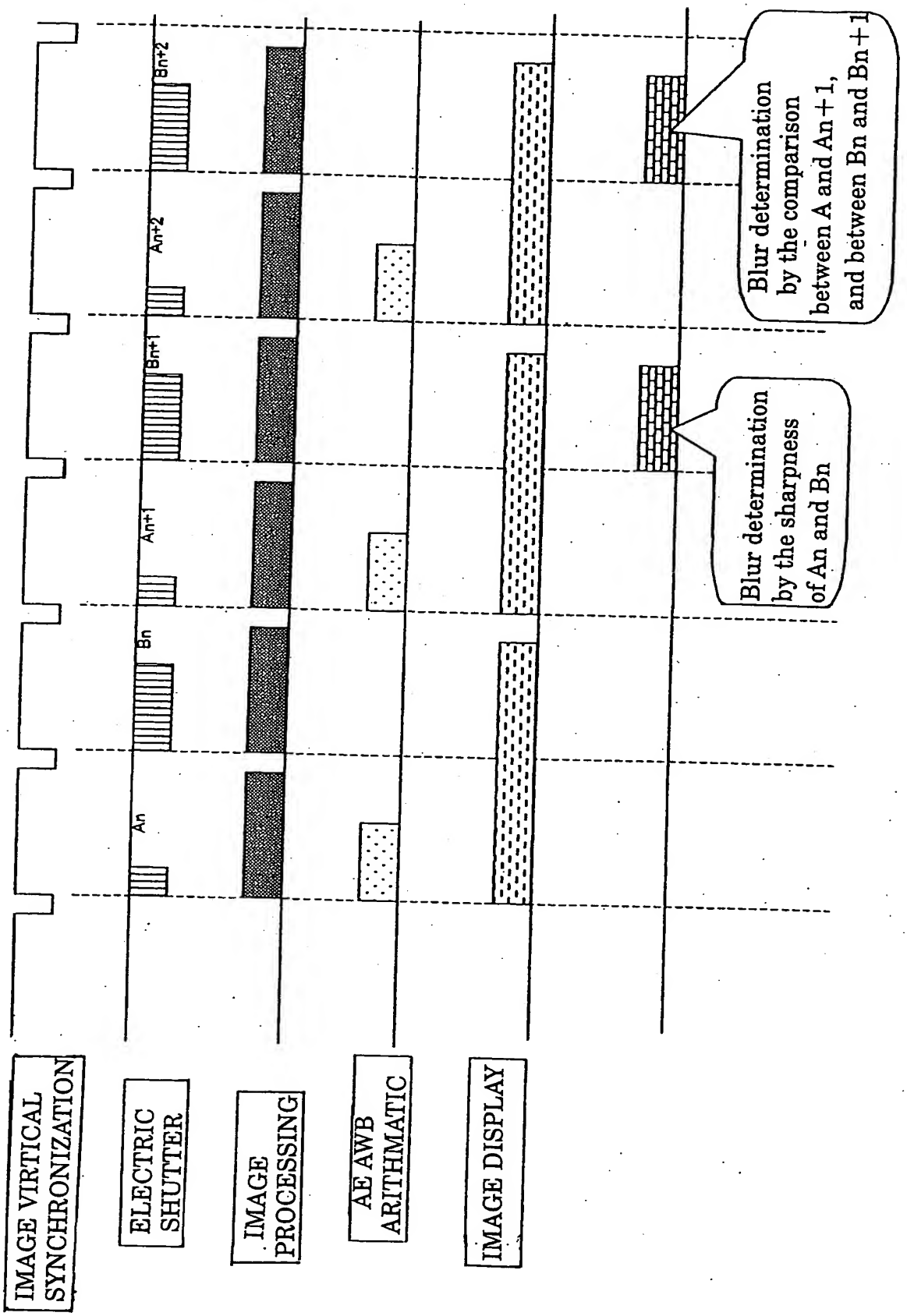


IMAGE VIRTICAL SYNCHRONIZATION
ELECTRIC SHUTTER
IMAGE PROCESSING
AE AWB ARITHMATIC
IMAGE DISPLAY
An
Bn
An+1
Bn+1
An+2
Bn+2
Blur determination by the sharpness of An and Bn
Blur determination by the comparison between A and An+1, and between Bn and Bn+1

FIG.6A

Sharpness Comparison 1	Sharpness Comparison 2	Blur Determination
An=Bn	–	non-blur
An>Bn	–	non-blur
An<Bn	Bn=Bn+1	camera shake
An<Bn	Bn≠Bn+1	subject blur

FIG.6B

Difference of An and An+1	Difference of Bn and Bn+1	Blur Determination
Small	–	non-blur
Large	Small	Camera shake
Large	Large	Subject blur

FIG.7A

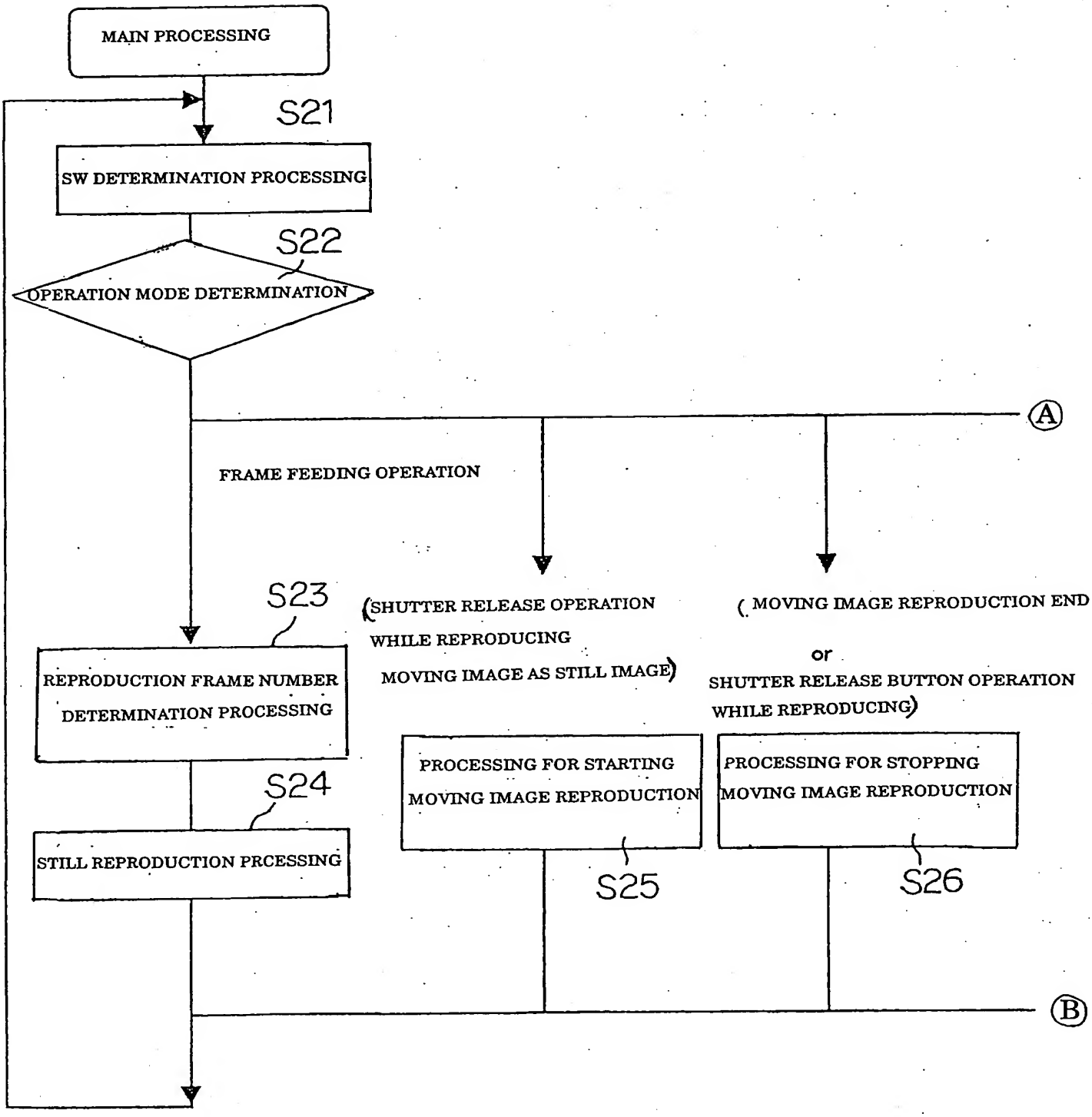
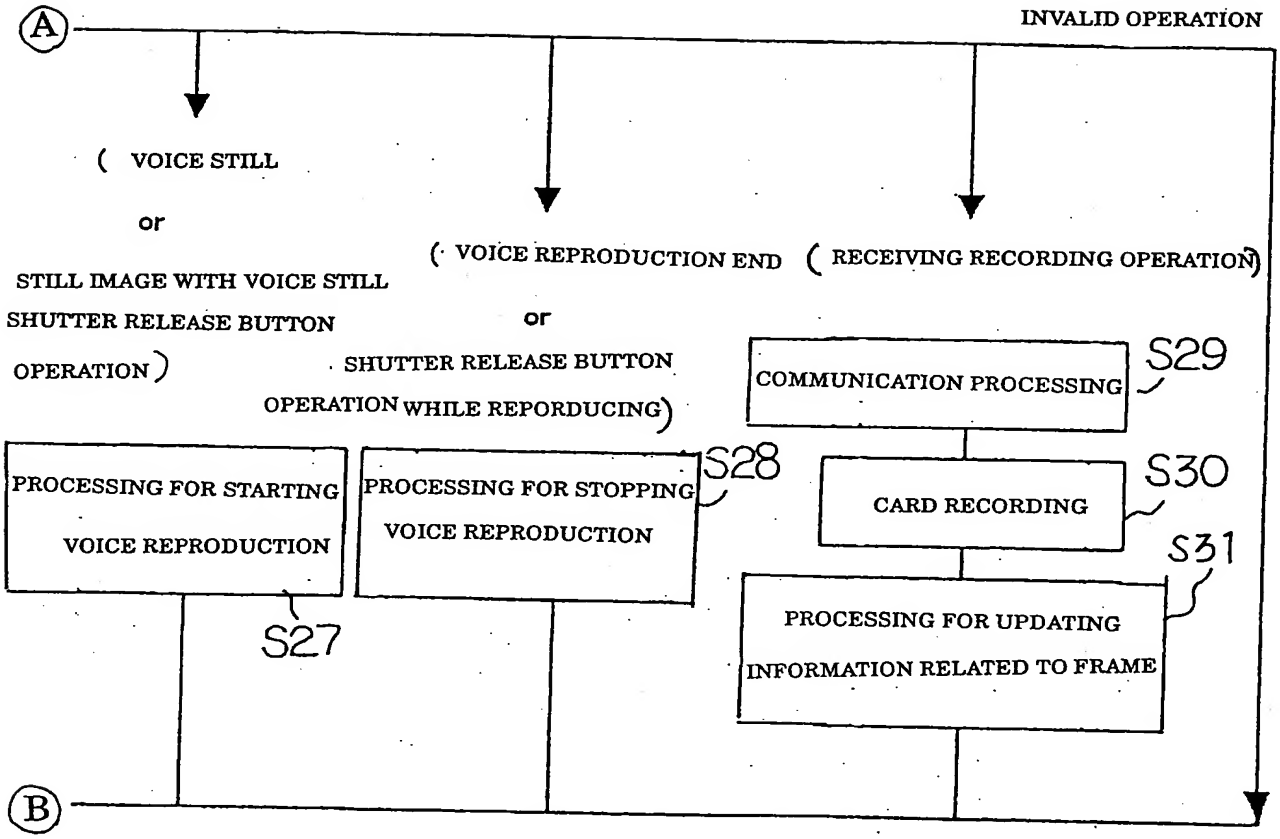

MAIN PROCESSING
S21
SW DETERMINATION PROCESSING
S22
OPERATION MODE DETERMINATION
A
FRAME FEEDING OPERATION
(SHUTTER RELEASE OPERATION WHILE REPRODUCING MOVING IMAGE AS STILL IMAGE)
(MOVING IMAGE REPRODUCTION END or SHUTTER RELEASE BUTTON OPERATION WHILE REPRODUCING)
S23
REPRODUCTION FRAME NUMBER DETERMINATION PROCESSING
S24
STILL REPRODUCTION PRCESSING
PROCESSING FOR STARTING MOVING IMAGE REPRODUCTION
S25
PROCESSING FOR STOPPING MOVING IMAGE REPRODUCTION
S26
B

FIG.7B


A
INVALID OPERATION
(VOICE STILL
or
STILL IMAGE WITH VOICE STILL
SHUTTER RELEASE BUTTON
OPERATION)
(VOICE REPRODUCTION END
or
SHUTTER RELEASE BUTTON
OPERATION WHILE REPORDUCING)
(RECEIVING RECORDING OPERATION)
COMMUNICATION PROCESSING
S29
CARD RECORDING
S30
PROCESSING FOR UPDATING
INFORMATION RELATED TO FRAME
S31
PROCESSING FOR STARTING
VOICE REPRODUCTION
S27
PROCESSING FOR STOPPING
VOICE REPRODUCTION
S28
B